01 / Identity and job scope

SIEMENS

6FX1113-4AD01

Measuring Circuit Module

Product role

Siemens 6FX1113-4AD01 is the SINUMERIK 8 MS301-D measuring-circuit assembly with additional MS340-A PCB for a minimum five-axis configuration.

Measuring equipment
Installed axis and feedback arrangement

>

MS301-D + MS340-A
Configured measuring circuit

>

SINUMERIK 8
Matching control and software

Applicability

The exact order configuration is MS301-D with MS340-A for a minimum of five axes. System functions depend on the installed control and software; platform values are not standalone board ratings.

Hardware and configuration

The 6FX1113-4AD01 order configuration combines the MS301-D measuring circuit with the additional MS340-A PCB for a minimum of five axes. This identifies the intended assembly configuration rather than an independently programmable complete CNC. The installed axis allocation, measuring equipment and machine wiring remain part of the host system.

Planning basis

This Apter Power guide supports identification and engineering planning. Apply the complete manufacturer and machine-builder procedures for the actual installation.

02 / Configuration and interface readiness

Item	Configuration relationship
System family	SINUMERIK 8
Main circuit designation	MS301-D
Additional PCB	MS340-A
Order configuration	Minimum 5 axes
Assembly role	Measuring circuit
Probe-interface context	MS301 X304.4 in the applicable 8MC arrangement
Configuration boundary	Installed control, software and machine wiring

Technical context

System 8 interface functions connect numerical control, interface control and machine signals. In the applicable 8MC arrangement, the MS301 family includes the fast measuring-probe input at X304.4; its response depends on the configured probe-enable signal. Treat that reference as an installation-specific connection, and confirm the actual assembly revision and machine diagram before use.

What axis configuration is identified for 6FX1113-4AD01?

The order definition is for a minimum of five axes. It does not specify the number of axes actually installed or enabled on a particular machine.

Is 6FX1113-4AD01 a complete CNC controller?

No. It is a measuring-circuit assembly within the configured SINUMERIK 8 control arrangement.

03 / Installation and connection decisions

Isolate machine motion

Place all axes in a safe state and isolate the control before handling the assembly.

Match both boards

Verify MS301-D and MS340-A markings together with the full order code.

Retain axis data

Back up and preserve the installed axis and machine-data configuration.

Verify feedback wiring

Record measuring-system connections and their assignments before removal.

Installation context

System 8 operating functions and machining cycles depend on the matching control software and stored programs. Cycle functions are held in program memory, with availability differing between control variants. Replacement of the measuring-circuit assembly therefore requires preservation of the axis and machine-data configuration, followed by controlled checks of feedback, reference behavior and the applicable probe or handwheel arrangement.

Where is the MS301 probe input associated with 6FX1113-4AD01?

The applicable 8MC interface description places the fast measuring-probe input at X304.4. Confirm the actual revision and machine drawing before applying this connection.

Is the probe input associated with 6FX1113-4AD01 always active?

No. In the applicable system arrangement, response depends on the configured probe-enable signal.

04 / Functional acceptance planning

Application	Controlled review
Measuring-circuit maintenance	Retain the MS301-D and MS340-A combination when checking the existing assembly.
Axis configuration continuity	Preserve installed axis allocation and machine data through the replacement procedure.
Probe-interface review	Check the applicable probe input, enable condition and machine wiring before commissioning.
Feedback verification	Confirm the actual measuring and reference behavior under controlled machine conditions.

Does 6FX1113-4AD01 determine the installed System 8 cycle package?

No. Machining cycles are stored in control program memory and depend on the installed control and software configuration.

What configuration should be retained when replacing 6FX1113-4AD01?

Preserve axis allocation, machine data and measuring-system connections, then check feedback and reference behavior under controlled conditions.

Release boundary

Check feedback, referencing and applicable probe functions before restoring normal motion.

Record
Keep the original configuration

>

Test
Observe controlled response

>

Release
Authorize normal operation

05 / Technical handover and support

Retained information

Keep the complete 6FX1113-4AD01 marking, host identity, connection photographs, configuration backup and controlled-test results in the service record.

Support planning

Confirm current support and replacement guidance with Siemens for the installed identity and configuration. Apter Power availability and dispatch are separate quotation matters.

Reference basis

Siemens 6FX1113-4AD01 product identification; SINUMERIK System 8 interface description, Part 2, Edition 04.84; System 8 programming instructions, Part 2, Edition 12.83.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Siemens 6ES5946-3UA23

Siemens 6ES5460-4UA11

Siemens 6ES5756-0AA11

Discuss your installed configuration

Send the full unit marking and connection details.

sales13@apterpower.com | +86 18030235313